

Device and method for preventing fraudulent copies of data containing encrypted copy-management information and recording medium

T Kato - US Patent 6,343,281, 2002 - Google Patents

... 3, 1997; Junko Yoshida. "Protecting digital media content, Memon, Nasir; Wong, Ping Wah ...
29,2002 Sheet 1 of 10 US 6,343,281 B1 MULTIMEDIA DATA STB -101 D ... COPYING PROCESSING
SECTION READ PROCESSING SECTION h321 322 _JL_ IEEE 1384 CHIP 323 _L_ ...

Cited by 21 - Related articles - All 2 versions

Smart card mating protocol

Jl Okamoto, EJ Sorunak, LW Tang. - US Patent App. . . , 2002 - freepatentsonline.com

... 20020039420, Method and apparatus for batched network security protection server performance,
April ... system 60 is responsible for entitlements (including transferring entitlements between initially
mated ... function to yield an authenticator delivered as part of the communication. ...

Cached

Method and apparatus for distributing keys for decrypting and re-encrypting publicly distributed media

GL Graunke - US Patent App. 20,030/065,265, 2001 - freepatentsonline.com

... Content Protection) developed by Intel protects digital content as it is transmitted between a set ...
TCB or it can be done directly to the sinks using a communication protocol understood by ... the
amount of information in the trusted module is small, the cost of protecting the information ...

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Method and apparatus for simultaneous encryption and decryption of publicly distributed media

GL Graunke - US Patent App. 20,030/062,679, 2001 - freepatentsonline.com

... Content Protection) developed by Intel protects digital content as it is transmitted between a set ...
TCB or it can be done directly to the sinks using a communication protocol understood by ... the
amount of information in the trusted module is small, the cost of protecting the information ...

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Method and apparatus for composable block re-encryption of publicly distributed content

GL Graunke - US Patent App. 20,040/032,580, 2002 - freepatentsonline.com

... not need to be trusted as its function is only to facilitate communication between other devices ...
module or it can be done directly to the sinks using a communication protocol understood ... the
amount of information in the trusted module is small, the cost of protecting the information ...

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Method and apparatus for providing conditional access in connection-oriented, interactive networks with a multiplicity of service providers

AJ Wasilewski, DF Woodhead... - US Patent 5,870,474, 1999 - Google Patents

... of programs, including at least one of video, audio, and data, between a service ... Packets
representing a particular program requested by a customer having a set top unit are ... In particular,
program bearing packets are encrypted according to a first encryption algorithm using a ...

Cited by 224 - Related articles - All 2 versions

Cryptographic key distribution system and method for digital video systems

E Olson, D Royoff, S Pettit... - US Patent App. 20,020/... , 2001 - freepatentsonline.com

... the RAM 307 via the selector switch 305 which selects between the encryptor ... embodiments, other
cryptographic systems may be used to protect the keys ... Previous Patent: Encryption method,
decryption method, cryptographic communication method, cryptographic communicatio ...

Cached

Tokenless identification system for authorization of electronic transactions and electronic transmissions

N Hoffman, DF Pare Jr. - US Patent 5,813,012, 1997 - Google Patents

... 11 F Mandatory Data 7 I Optional Data Encryption/Sealing Process at Biometric Input Device
Fig. ... Set Electronic Signature in Record (0 7-fmm 4u 5 ... and its low cost compared to conventional
mail, has made it a method of choice for communication between individuals and ...

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Method and apparatus for providing conditional access in connection-oriented interactive networks with a multiplicity of service providers

AJ Wasilewski, DF Woodhead... - US Patent 5,424,714, 2002 - Google Patents

... of programs, including at least one of video, audio, and data, between a service ... Packets
representing a particular program requested by a customer having a set top unit are ... In particular,
program bearing packets are encrypted according to a first encryption algorithm using a ...

Cited by 33 - Related articles - All 3 versions

Method and apparatus for providing hierarchical key system in restricted-access television system

WJ Richards - US Patent 6,099,957, 2000 - Google Patents

... Such a hierarchy is sometimes called "key-upon-key" encryption. The system transmits a second
key that produces a first key from a cipher text (which first key decrypts a first program material)

and wherein the second key also decrypts a second program material. ...

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Context-agile encryption for high speed communication networks

[\[PDF\] from sgconline.org](#)

L.G. Pierson, E.L. Wuzke, M.O. Shan... - J. Communication Review, 1999 - portal.scm.org

... In order to support the required data rates, a point to point architecture **between** the cell router and ... 46 Computer Communication Review ... The following discussion assumes Counter Mode, as Electronic Codebook Mode does not **protect** against dictionary lookup or replay attacks ...

[Cited by 19](#) - [Related articles](#) - [All 3 versions](#)

Tokenless biometric transaction authorization system

D.F. Pare Jr., J.A. Lee... - US Patent 5,838,812, 1998 - Google Patents

... The method and apparatus can be networked to act as a full or partial intermediary **between** other independent dent computer ... 11 QUO / Mandatory 7 Data 7 Encryption/Sealing Process at Biometric Input Device Fig. ... Set Electronic Signature in Record "5? 0 8 g |] £\$ o t. c ...

[Cited by 167](#) - [Related articles](#) - [All 2 versions](#)

System and method for secure electronic digital rights management, secure transaction management and content distribution

D. Rurije, M. Kovac, B.D. Litman... - US Patent App. ... 2000 - freepatentsonline.com

... This transformation/modification can have several purposes one of which could be to **protect** the original content so that it ... together with the first key pair is used to establish and ensure secure communication connection/secure communication channel **between** CA and ...

[Cached](#)

Method and apparatus for providing bus-encrypted copy protection key to an unsecured bus

D.A. Strasser, E. Pang... - US Patent App. 20 02/01 ... 2001 - freepatentsonline.com

... and the DFAST algorithm as described, for example, in the Open Cable POD Copy Protection System Interim ... key 124, so that the bus encryption key is not communicated over any communication link such as the unsecured bus 112 or the channel 104 **between** the POD ...

[Cached](#)

Tokenless identification of individuals

D.F. Pare Jr., N. Hoffman... - US Patent 5,805,719, 1998 - Google Patents

... The system can be networked to act as a full or partial intermediary **between** other independent computer systems, or may be the sole computer systems carrying out all ... 8, Sheet 6 of 14 § y Encryption of Data MDM V. O oo Qj QO^ ^- Q__ ^5 c^ QJ O 1 1. \$ ^SH^ -]s ^11! ...

[Cited by 238](#) - [Related articles](#) - [All 2 versions](#)

[HTML] Practical Cryptosystems and their Strength

[\[HTML\] from tkl.fi](#)

J. Friisen - Tik-110 501 Seminar on Network Security, 1995 - tml.tkl.fi

... Strong encryption can be used to **protect** your sensitive data against organized crime, government and multinational ... In hardware, DES is **between** 1,000 and 10,000 times as fast, depending on the implementations. ... This may be a text message, file or a stream of communication. ...

[Cited by 1](#) - [Related articles](#) - [Cached](#)

System and method for secure electronic digital rights management, secure transaction management and content distribution

D. Rurije, M. Kovac, B.D. Litman... - US Patent App. 09/ ... 2000 - Google Patents

... Set 43 of 48 US 2001/0032312 A1 Key Establishment Protocol **between** UD and ... contains certain IDs or crypto keys used for identification and/or encryption/decryption [0015 ... keys from the protected storage inside the embedded processor [0016] Secure chip level—software ...

Initializing, maintaining, updating and recovering secure operation within an integrated system employing a data access control function

E.M. Foster, W.E. Hall... - US Patent App. 20 03/01 ... 2002 - freepatentsonline.com

... To **protect** a secret key, therefore, the number of samples employing the key should be limited. ... with the on-chip persistent storage so that the count is maintained **between** sessions, or ... 12 A, data is received, in this case through communication port 1200, from an outside source ...

[Cached](#)

Time delayed key escrow

S. Goldwasser... - US Patent 5,768,368, 1996 - Google Patents

... of the secret-key is essentially exhaustive search, otherwise it will not provide **protection** against massive ... of the secret-key can be done over the public insecure communication channels (without use of encryption to hide pieces) via an interactive process **between** 45 the ...

[Cited by 21](#) - [Related articles](#) - [All 2 versions](#)

Server with multiple encryption libraries

J. Newton - US Patent App. 20 03/0335,547, 2001 - freepatentsonline.com

... Layer (SSL) technology, is the industry-standard method for **protecting** web communications ... as SRAM (static random access memory) for implementing on-chip configuration memory ... on the World Wide Web for authenticated and encrypted communication **between** clients and ...

[Cached](#)

METHOD AND APPARATUS FOR PROVIDING CONDITIONAL ACCESS IN CONNECTION-ORIENTED INTERACTIVE NETWORKS WITH A MULTIPLICITY OF ...

A.H. Waisel-wski, D.F. Woodward... - US Patent App. 20 02/01 ... 1999 - freepatentsonline.com

... The NCMC 100 then provides a communication connection **between** a particular service provider 110 ... overcomes an additional obstacle—only a single interactive connection exists **between** the

SP ... word, other data (eg. system-wide pay-per view access, copy **protection**, and the ...

[Cached](#)

Server with multiple encryption libraries

J Newton - US Patent App. 09/020,248, 2001 - Google Patents

... Sockets Layer (SSL) technology, is the industry-standard method for **protecting** web communica ...
bus 112, **communication** adapter 134 for connecting the workstation to a **communication** network
(eg. ... layer module may be used to manually or automatically select **between** any one ...

Method for simulcrypting scrambled data to a plurality of conditional access devices

BL Canditore - US Patent App. 20,029/188,567, 2002 - freepatentsonline.com

... The combination of movement towards digital **communication** systems and digital recording devices poses a ... operates to transmit control information and data including program data **between** the digital ... scrambled stream is provided to the DES ECB copy **protection** chip 642 for ...

[Cached](#)

Method and apparatus for enhancing software security and distributing software

St. Guang - US Patent 5,723,422, 1998 - Google Patents

... Public key cryptography is used to send secure messages across public **communication** links on which ... As will be described, the present invention may also be used to **protect** intellectual property ... all cases, the reader is advised to keep in mind the distinction **between** the method ...

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[BOOK] PGP: pretty good privacy

S Garfinkel - 1995 - books.google.com

... 125 An Information Superhighway that's "Wired for Sound" 126 The NSA's Clipper **Chip** 127 Inside ... is the official standard for voice, fax, and low-speed data **communication** for the ... with RSA and other good cryptographic systems, the tools for privacy **protection** are now in the ...

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[\[HTML\] from utalca.cl](#)

Secure execution of program instructions provided by network interactions with processor

A Folsombee - US Patent 6,306,266, 2001 - Google Patents

... 5 is a diagram which shows how interdependencies **between** operations are checked in the ... These encrypted long instruction words may then be distributed without further **protection** to the ... Each CPU **chip** produced, according to the present invention, has an instruction **set** that ...

[Cited by 47](#) - [Related articles](#) - [All 2 versions](#)

[BOOK] Smart card security and applications

M Hendry - 2001 - books.google.com

... Card Security and Applications Calculating the risks: probabilities and odds 13 Technical **communication** obstacles 15 ... The next generation of mobile telephony will bring the **chip** card to North America and ... be put in place for a smart card scheme to be effective in **protecting** data ...

[Cited by 123](#) - [Related articles](#) - [Library Search](#) - [All 7 versions](#)

Cryptographic system with methods for user-controlled message recovery

P Zimmermann - US Patent 6,314,190, 2001 - Google Patents

... of the disclosure of this patent document contains material which is subject to copyright **protection** ... from one individual to another across a network or other **communication** channel, including ... user; the **first key** pair comprises a public key employed for **encrypting** messages sent ...

[Cited by 27](#) - [Related articles](#) - [All 2 versions](#)

System and method for downloading electronic information to a video lottery terminal

TA Gordon, BM Kelly - US Patent App. 20,020/... - 2001 - freepatentsonline.com

... This gives the client the ability to distinguish **between** electronic keys used for different software ... third key required to decrypt the code and this offers added **protection** against unauthorized ... [0046] Electronic security key access occurs before any **communication** transfers occur ...

[Cached](#)

System for controlling the distribution and use of digital works having attached usage rights where the usage rights are defined by a usage rights grammar

MJ Steink - US Patent 5,715,403, 1998 - Google Patents

... the right The behavior of a usage right is embodied in a predetermined **set** of usage ... Strattnar, GN, "Cash register on a **chip**" may revolutionize software pricing and distribution; Wave ... Griswold, GN, "A Method for **Protecting** Copyright on Networks," IMA Intellectual Property Project ...

[Cited by 591](#) - [Related articles](#) - [All 2 versions](#)

System for controlling the distribution and use of digital works

MJ Steink - US Patent 5,625,960, 1997 - Google Patents

... Access to digital works for the purposes of transporting **between** repositories (eg copying ... Strattnar, A, "Cash register on a **chip** may revolutionize software pricing and distribution ... Griswold, GN, "A Method for **Protecting** Copyright on Networks," IMA Intellectual Property Project ...

[Cited by 722](#) - [Related articles](#) - [All 2 versions](#)

Security Paradigms

P Verissimo - Distributed Systems for System Architects, 2001 - Springer

... As depicted in Figure 17.5, Alice (A) and Bob (B) only do public **communication**. ... They may also authenticate messages exchanged **between** two users ... from **encryption**: when a message is encrypted, it is naturally protected, but after decryption at the recipient, the **protection** is lost ...

System for controlling the distribution and use of composite digital works

MJ Stefik, GS Bobrow, . - US Patent 5,578,447, 1997 - Google Patents

... Stratiner, A., "Cash register on a chip" may revolutionize Software pricing and distribution ... Griswold, GN, "A Method for Protecting Copyright on Networks," IMA Intellectual Property Project ... ID]] 7505—Transport-Code = [Copy | Transfer | Loan (Remaining-Rights: Next-Set-of-Rights ...

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System for controlling the distribution and use of digital works having a fee reporting mechanism

MJ Stefik, RC Merkle, . - US Patent 5,634,012, 1997 - Google Patents

... A., "Cash register on a chip" may revolutionize software pricing and distribution; Wave ... Griswold, GN, "A Method for Protecting Copyright on Networks," IMA Intellectual Property Project ... ID]] 7505—Transport-Code = [Copy | Transfer | Loan (Remaining-Rights: Next-Set-of-Rights ...

[Cited by 527](#) - [Related articles](#) - [All 2 versions](#)

Secure entry system with acoustically coupled telephone interface

WF Lanken, . - US Patent 5,245,852, 1993 - Google Patents

... brochure, "A New Dimension in Key Box Systems, by Supra, the EAC-1000 Key Safe System," 22/10/106*4. 7068:80. FIG. 23 46-X m 97 40' 14', OPTOELECTRONIC COMMUNICATION PORT 42' FIG. 24 OPTOELECTRONIC COMMUNICATION PORT 7 50' CPU CALENDAR CLOCK 48' 55' COMPARTMENT LOCK RAM MEMORY**54' J Page 14, ...

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System for controlling the distribution and use of digital works using digital tickets

MJ Stefik, . - US Patent 6,238,971, 2001 - Google Patents

... Set-Of-Rights) ((Delete: Set-Of-Rights) ((Replace: Set-Of-Rights JK(Keep: Set-Of-Rights ... 4,932,054 entitled "Method and Apparatus for Protecting Computer Software Utilizing Coded Filter Network in ... are sent to a license control system over an appropriate communication facility. ...

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Electronic postage scale system and method

RG Schwartz, AA Crowe, JS Emmett, . - US Patent, . - 1998 - Google Patents

Page 1. ■■■■■■■■■■ United States Patent m Schwartz et al. US005780778A [ij] Patent Number: [45] Date of Patent: 5,780,778 Jul. 14, 1998 [54] ELECTRONIC POSTAGE SCALE SYSTEM AND METHOD [75] Inventors: [73] Robert G. Schwartz, Branford, Allen A. Crowe, ...

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Consumable authentication protocol and system

SR Wainmaley, . - US Patent 6,374,354, 2002 - Google Patents

... 20 This includes internet commerce, peer to peer communication, Smart Cards, Authentication chips, elec- tronic ... The first key is therefore used to help protect the second key against differential attacks. ... 6,3'4,354 BI 3 Similarly, there should be a minimum delay between calls to ...

[Cited by 35](#) - [Related articles](#) - [All 2 versions](#)

Data synchronization method for use with portable microprocessor-based device

WG Henderson, WF Lanken, . - US Patent 5,602,536, 1997 - Google Patents

... 22/10/106*4. 7068:80. FIG. 23 46-X m 97 40' 14', OPTOELECTRONIC COMMUNICATION PORT 42' FIG. 24 OPTOELECTRONIC COMMUNICATION PORT 7 50' CPU CALENDAR CLOCK 48' 55' COMPARTMENT LOCK RAM MEMORY**54' J Page 14, ...

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Electronic postage scale system and method

RG Schwartz, AA Crowe, JS Emmett, . - US Patent, . - 1997 - Google Patents

Page 1. US005615120A United States Patent Schwartz et al. [ij] Patent Number: [45] Date of Patent: 5,615,120 Mar. 25, 1997 [54] ELECTRONIC POSTAGE SCALE SYSTEM AND METHOD [75] Inventors: Robert G. Schwartz ...

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Altered States: Electronic Commerce and Owning the Means of Value Exchange

[\[PDF\] from stanford.edu](#)

RD Fram, MJ Radin, . - Stan Tech L., . - 1999 - litigation-essentials.lit.asnexus.com

... On the plus side, the Internet has reduced the costs of communication and promises to ... gap between secure payment card transactions and micropayments (roughly anything between \$.25 and ... Although copyright protection lasts much longer than a patent (ninety-five years after ...

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IPsec: The Future of Network Security?

[\[PDF\] from ou.se](#)

O Jonsson, . - 2000 - gupea.ub.se

... The purpose of the IP Security Protocol Working Group is to develop mechanisms to protect client protocols of IP. ... This communication must be standardized if it is to be successful. ... Therefore there must also be an agreement on how to pass data between the layers on a single ...

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Electronic postage scale system and method

RG Schwartz, AA Crowe, JS Emmett, . - US Patent, . - 1998 - freepatentsonline.com

... of the disclosure of this patent document contains material which is subject to copyright protection. ... Wave spring washer 125 is placed between blocks 109a and 123 to more reliably ... include a clock generator, three timers, a peripheral interrupt controller, a chip select logic ...

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Electronic scale system with programmable function keys

RG Schwartz, AA Crowe, JS Emmett, . - US Patent, . - 1998 - Google Patents

Page 1. United States Patent Schwartz et al. US005841076A [ij] Patent Number: [45] Date of Patent: 5,841,076 Nov. 24, 1998 [54] ELECTRONIC SCALE SYSTEM WITH PROGRAMMABLE FUNCTION KEYS [75] Inventors: Robert ...

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Adjustable display for use with an electronic postage scale system

RG Schwartz, AA Crowe, JS Emmett, ... - US Patent, ... 2000 - Google Patents
 Page 1. United States Patent [w] Schwartz et al. US006013878A [a] Patent Number:
 [45] Date of Patent: 6,013,878 Jan. 11, 2000 [54] ADJUSTABLE DISPLAY FOR USE
 WITH AN ELECTRONIC POSTAGE SCALE SYSTEM [75 ...

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System and method for an electronic postage scale with variable function keys and window screens

RG Schwartz, AA Crowe, JS Emmett, ... - US Patent, ... 2000 - Google Patents
 Page 1. United States Patent [w] Schwartz et al. US006153835A [a] Patent Number:
 6,153,835 [45] Date of Patent: Nov. 28, 2000 [54] SYSTEM AND METHOD FOR AN
 ELECTRONIC POSTAGE SCALE WITH VARIABLE FUNCTION ...

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Electronic postage scale system and method

RG Schwartz, AA Crowe, JS Emmett, ... - US Patent, ... 2002 - Google Patents
 Page 1. (12) United States Patent Schwartz et al. US006462286B1 (a) Patent No.:
 US 6,462,286 B1 (45) Date of Patent: Oct. 8, 2002 (54) ELECTRONIC POSTAGE SCALE
 SYSTEM AND METHOD (75) Inventors: Robert G. Schwartz ...

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Validation protocol and system

SR Walmsley, ... - US Patent App., 10/201,550, 2002 - Google Patents
 ... The chip is manufactured using the standard Flash memory manufacturing process, and is less
 cost-though to ... modulo register length) Erase X Erase Flash memory register X SetBits[X, Y] Set
 the bits ... suggest an absolute minimum key length of 90 bits in order to protect data for ...

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[BOOK] E-mail virus protection handbook

Syngress Media, Inc. - 2000 - books.google.com
 ... CCNA) has about 15 years of experience as an Information and Communication Technologies
 (ICT ... 15 Types of Worms 16 Trojans 17 Illicit Servers 17 Differentiating between Trojans and ... Security
 21 Common Authoring Languages 22 Protecting Your E-mail 23 Protecting E-mail ...

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[PDF] Secure Internet-based Electronic Commerce: The View from Outside the US

P Gulmanin - 1996 - Cluserer

[\[PDF\] from psu.edu](#)

... Although Netscape negotiated a 128-bit key to protect each session, it sent 88 of ... buggy software,
 the attempt ultimately failed, but the stage had been set for an ... of MD5 precomputation which could be
 done, and included automatic communication between client workstations ...

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Composite digital works having usage rights and method for creating the same

MJ Stefk, ... - US Patent App., 20,020/128,972, 2001 - freepatentsonline.com
 ... In addition to protection of the repository itself, the repository design protects access to the ... and
 nonces described below are all security measures aimed at reliable communication in a ... in which
 digital works are exchanged is the basis for all transaction between repositories. ...

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Digital works having usage rights and method for creating the same

MJ Stefk, ... - US Patent App., 20,020/128,972, 2001 - freepatentsonline.com
 ... In addition to protection of the repository itself, the repository design protects access to the ... and
 nonces described below are all security measures aimed at reliable communication in a ... in which
 digital works are exchanged is the basis for all transaction between repositories. ...

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System for controlling the distribution and use of digital works using digital tickets

MJ Stefk, ... - US Patent App., 20,010/023,417, 2001 - freepatentsonline.com
 ... In addition to protection of the repository itself, the repository design protects access to the ... and
 nonces described below are all security measures aimed at reliable communication in a ... in which
 digital works are exchanged is the basis for all transaction between repositories. ...

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System for controlling the distribution and use of digital works

MJ Stefk, ... - US Patent App., 20,030/023,561, 2002 - freepatentsonline.com
 ... In addition to protection of the repository itself, the repository design protects access to the ... and
 nonces described below are all security measures aimed at reliable communication in a ... in which
 digital works are exchanged is the basis for all transaction between repositories. ...

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Method and apparatus for executing code in accordance with usage rights

MJ Stefk, ... - US Patent App., 20,030/223,616, 2002 - freepatentsonline.com
 ... In addition to protection of the repository itself, the repository design protects access to the ... and
 nonces described below are all security measures aimed at reliable communication in a ... in which
 digital works are exchanged is the basis for all transaction between repositories. ...

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[\[PDF\] An introduction to cryptography](#)

E. Schaefer - Santa Clara University, 1998 - CiteSeer

[PDF] from paledu

... It is not only use by spies but for phone, fax and e-mail communication, bank transactions ... we can encode a digraph xy as $26x + y$. The resulting number will be between 0 and ... is an unsafe stream cipher used on PC's to encrypt files (savvy users aware it gives minimal protection). ...

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Validation protocol and system

SR Watmsey - US Patent App, 20 030/159,059, 2002 - freepatentsonline.com

... 20070288744, Method of Secure Communication Between Endpoints, December, 2007, Wang. ...

[0156] A one-way hash function is not sufficient protection for a ... of an authentication chip, a known-plaintext attack is one where the attacker can see the data flow between the system ...

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Consumable authentication protocol and system

SR Watmsey - US Patent App, 20,030/ ... 2002 - freepatentsonline.com

... [0154] A one-way hash function is not sufficient protection for a message. ... In the case

of an authentication chip, a known-plaintext attack is one where the attacker can see the data flow between the system and the authentication chip. ...

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Unauthorized modification of values stored in flash memory

K Silverbrook - US Patent App, 20,030/ ... 2002 - freepatentsonline.com

... [0159] A one-way hash function is not sufficient protection for a message. ... In the case

of an authentication chip, a known-plaintext attack is one where the attacker can see the data flow between the system and the authentication chip. ...

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[BOOK] Crypto: Secrecy and privacy in the new code war

S Levy - 2001 - books.google.com

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